manua, v. r.		IA 242T28	
	242728	In connection with choice of dielectric material, various gases, solids, and liquids for capacitors, examines question of usefulness of "simple formulas" for comparing specific characteristics of capacitors and also discusses prospects for improving these characteristics. Graphs plot specific capacitance and specific energy versus specific capacitance and specific energy versus working volts for a number of Soviet capacitor types (e.g., type KE-M electrolytic, type KMB-G metallized paper, and many others). Submitted 11 Mar 52.	USSR/Electricity - Capacitors Dec 52 "Specific Characteristics of Electrical Capacitors," In Tech Sci, V. T. Renne, Leningrad Polytech Instrument Kalinin "Elektrichestro" No 12, pp 47-53

RENNE, V. T.

USSR/Physics - Dielectric Strength of Paper

Jan 52

"Dielectric Strength of Condenser Paper in a Compressed-Gas Medium," V. T. Renne, N. M. Reynov, M. M. Yudashkina. Leningrad Phys-Tech Inst, Acad Sci USSR

"Zhur Tekh Fiz" Vol XXII, No 1, pp 16-20

Investigates the dependence of rupture strength E (in kv/mm) of condenser paper upon the pressure of gas (elegas, nitrogen, etc. in kg/sq cm) for various thicknesses of paper and make. Concludes that the use of paper can be expeditiously recommended in dielec technology. Submitted 5 Apr 51.

206**T**99

USSR/Electricity - Scientists

"Professor A. M. Zalesskiy (In Connection with His 60th Birthday)," M. A. Shatelen, L. P. Neyman, M. P. Kostenko, I. A. Zaytsev, Ye. G. Shramkov, M. D. Kamenskiy, B. I. Domanskiy, V. A. Belyakov, V. T. Renne, V. P. Andreyev, L. M. Piotrovskiy,

B. N. Mikhalev, G. A. Kukekov, Yu. A. Sabinin

Elek-vo, No 2, p 94

Recounts chief events in professional life of Prof Aleksandr Mikhaylovich Zalesskiy, born 27 Nov 1892. Long active in field of high-voltage techniques, he has been Chairman of Administrative Board of VNITOE since 1945.

PA 248T29

USSR/Electricity - Scientists

Feb 53

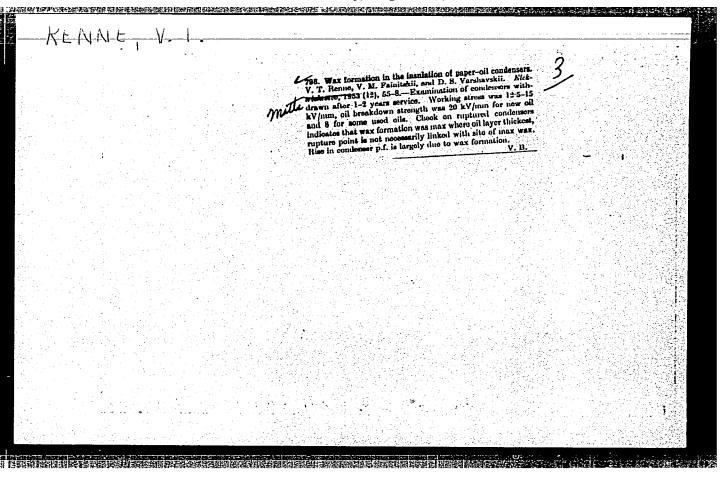
"Frodessor M. M. Mikhaylov: In Connection with His 60th Birthday and 30th Year of Scientific and Pedagogical Activity," M. A. Shatelen, I. A. Eaytsev, L. P. Meyman, A. M. Zalesskiy, V. T. Renne, P. P. Kobeko, G. P. Mikhaylov

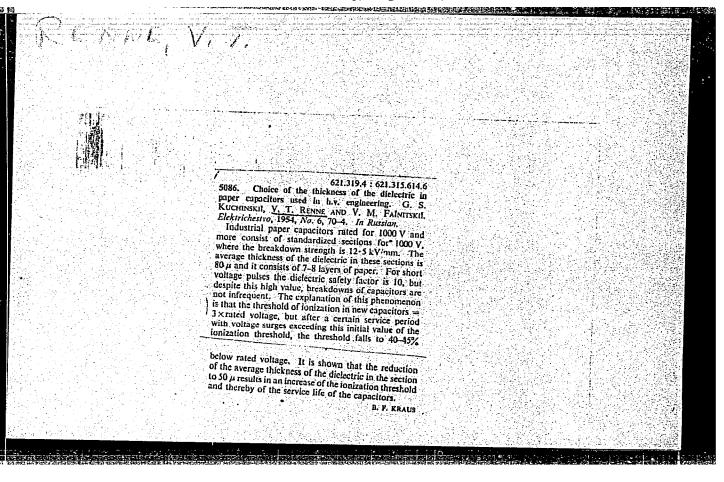
Elek-vo, No 2, p 95

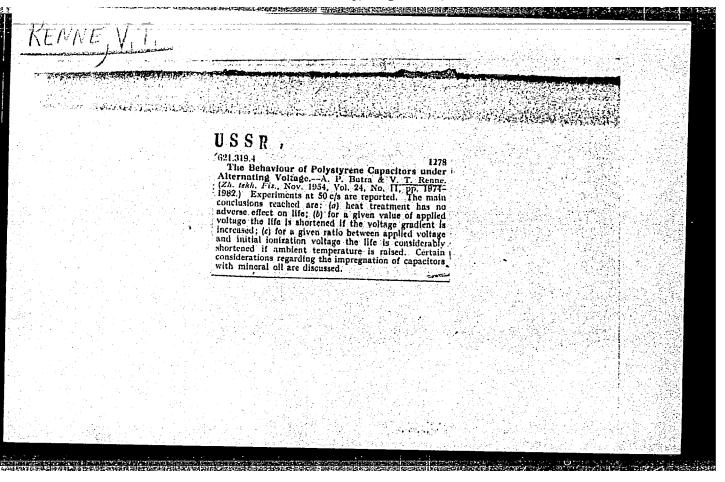
wiiii, T. P.

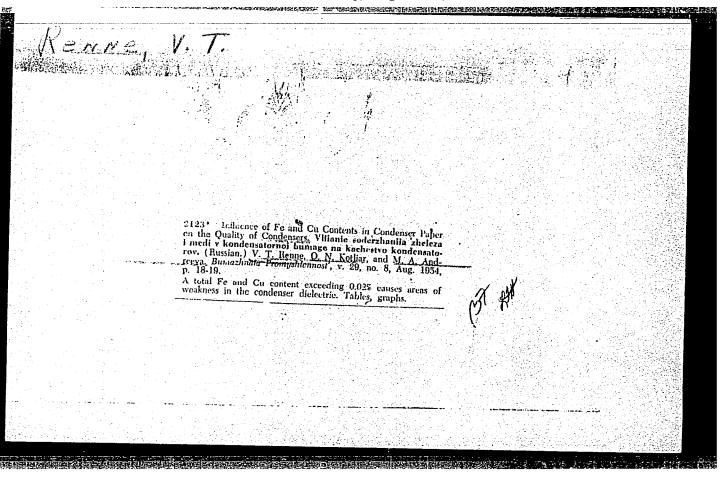
Gives brief account of professional life of Mikhail Mikhaylovich Mikhaylov, born 21 Aug 1892 in Tbilisi. Specialist in insulating materials, he participated in publication of textbooks and handbooks on elec insulation techniques, was instrumental in training scientists and engineers, and was awarded 2 WMII medals, plus Order of Lenin (1961).

PA 248T30









Condensers for high-frequency thermal apparatus. [Izd.] LONITOMASH no.33:92-105 '54. (MIRA 8:2) (Condensers (Electricity)) (Induction heating)

BOGORODITSKIY, N.P., PASYNKOV, V.V.; TAREYEV, B.M.; RENNE, V.T., redaktor VORONETSKAYA, L.V., tekhnicheskiy redaktor.

[Materials used in electric engineering] Elektrotekhnicheskie materialy. Izd-vo 302, pere. Moskva, Gos. energ. izd-vo, 1955.

372 p. (MLRA 8:8)

(Electric engineering--Materials)

AID P - 3033

Subject

USSR/Electricity

Card 1/1

Pub. 27 - 20/33

Author

Renne, V. T., Dr. of Tech. Sci.

Title

Development of domestic capacitor production

Periodical

Elektrichestvo, 7, 114-123, J1 1955

Abstract

A brief historical sketch of the historical development of capacitor production in the USSR is given. The author reports on the latest developments in this field, new types of hard dielectrics, polystyrene capacitors, and also air capacitors, gas-filled capacitors for powerful circuits of radio stations and vacuum capacitors for ultrashortwave installations. Three tables, 10 photographs, drawing and diagrams, 10 references (1948-1954) (9 Soviet).

Institution: Leningrad Polytechnical Institute im. Kalinin

Submitted

: Mr 28, 1955

9 tay VB Translation M-935,

Subjuct

: USSR/Electricity

Jard 1/1

Fub. 27 - 23/25

Authors

Maryshkin, I. I., M. A. Shatelen, L. R. Neyman, A. M. Zalesskiy, B. I. Domanskiy, S. V. Usov, V. T. Renne, I. A. Zaytsev, and others

AID P - 3268

Title

Frofessor M. D. Kamenskiy. His 70th birthday and 45 years of scientific and educational activity

Feriodical

Elektrichestvo, 9, 84-85, 8 1955

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Abstract

The authors pay tribute to Irof. M. D. Kamenskiy's scientific and educational activity and present a short biographical

sket:h and description of his activities.

Institution

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Submitted

No date

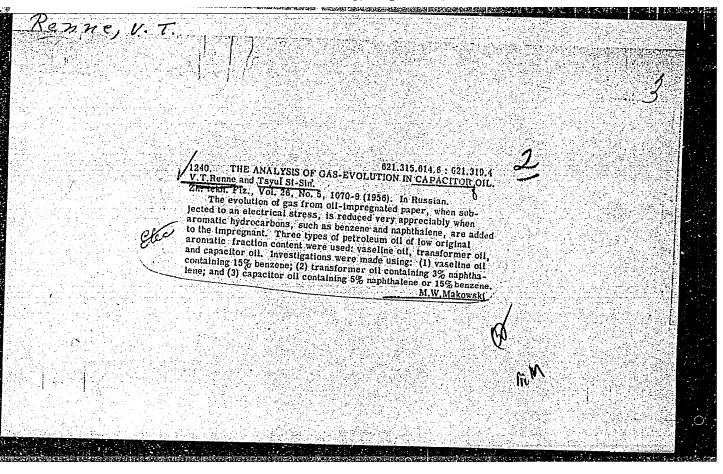
KAZARNOVSKIY, David Mikhaylovich; REINE, V.T., reduktor; ZABRODINA, A.A., tekhnicheskiy redektor

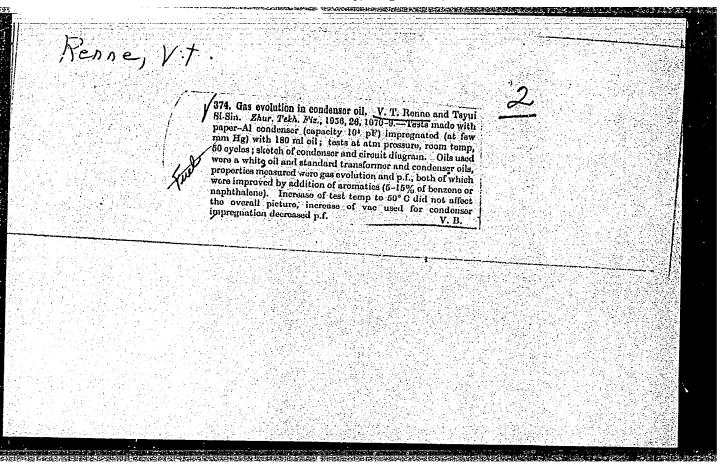
[Seignettoceramic capacitors] Segnetokeramicheskie kondensatory.
Moskva, Gos. energ. izd-vo. 1956. 222 p. (MIRA 10;3)

(Ferroelectric substances) (Condensers (Electricity))

RENNE, V.T., doktor tekhnicheskikh nauk, professor.

Power capacitor construction in other countries. Elektrichestvo no.3:75-81 Mr '56. (MIRA 9:6) (Condensers (Electricity))





元人。他也是这种,但是自己的意思的是,我可以是否是否是是不是的人们的代表的。

8 (0)

SOV/112-59-1-187

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, p 24 (USSR)

AUTHOR: Renne, V. T., and Kalyazina, N. N.

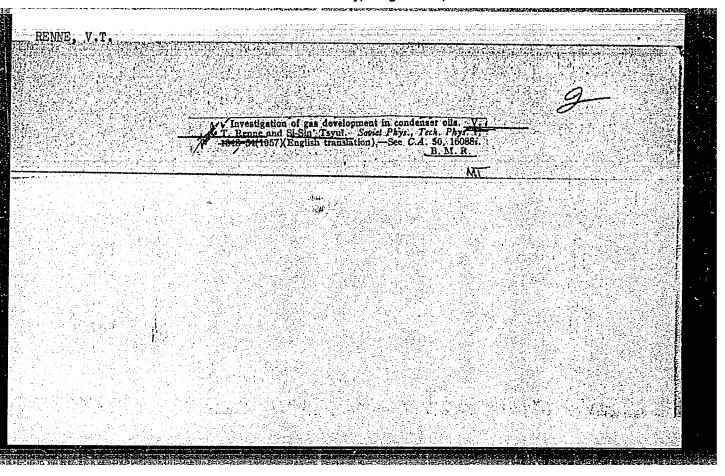
TITLE: Cutting the Loss Angle of Capacitor Paper Used in Power Capacitors Employed on Long Transmission Lines

PERIODICAL: Tr. Mezhvuzovsk. nauchno-tekhn. konferentsii po dal'nim elektroperedacham, 1956, Sekts. 3, L., 1957, pp 118-122

ABSTRACT: The problem of raising the capacity (power) of a unit capacitor intended for large reactive-power banks is considered. A formula is derived that shows the relations between the capacitor temperature rise, its tgo, and its rated reactive power; cutting tgo by 20% permits doubling the capacitor power. The capacitor tgo can be slashed (at 50 cps) by cutting down the tgo of its paper. A short summary is presented of an investigation of the capacitor-paper tgo for organic and inorganic paper compositions; the investigation was carried out by the Chair of Electrical-Insulation and Cable Engineering, LPI. Bibliography: 6 items.

Card 1/1

V.T.R.



JY!

105-9-24/32

AUTHOR:

Renne, V.T., Doctor of Technical Sciences,

Professor

TITLE:

Foil Condensers (Plenochnyye kondensatory)

PERIODICAL:

Elektrichestvo, 1957, Nr 9, pp. 75-79 (USSR)

ABSTRACT:

A survey is given on the world production and a detailed description of the state of development of foil condensers in Europe, USA and Soviet Russia. The United States, where polar and nonpolar foils are used, are the leading country in this development. Dielectrics of the second group are polystyrene, polyethylene, and polytetrafluorethylene which show a small loss angle of (2 to 5)10-4 as well as higher resistance of 1019 to 1020 Ohm.cm in comparison with infiltrated paper. Polysterene is used for condenser building also in Europe however it is not so heat resistent. Polytetrafluorethylene (Teflon) is much more expensive, however, as an organic material it shows exceptionally high working temperatures from 200 to 250°. The advantage of these polar synthetic foils compared to the nonpolar ones is the higher dielectricity constant and a higher electric strength. The following polar foils are used at present: cellulose acetate. polytrifluorchlorethylene, and polyethyleneterephtalat. On the basis of the first mentioned, condensers are produced by the "Condenser Product" works in the USA. The second is known in the

Card 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001444

AUTHORS:

Renne, V. T. , Tsyuy Si-sin!

57-27-7-8/40

TITLE:

The Influence Exerted by Side Chains in Aromatic Compounds Upon the Behavior of Petroleum in an Electric Field (Vliyaniye bokovykh tsepey v aromaticheskikh soyedineniyakh na povedeniye neftyanogo masla v elektricheskom pole)

PERIODICAL:

Churnal Tekhnicheskoy Fiziki, 1957, Vol. 27, Nr 7, pp. 1462 - 1465 (USSR)

ABSTRACT:

Reference is made to the earlier paper by the authors in Zhurnal Tekhnicheskoy Fisiki, 1956, Vol. 26, p. 1070, and by saploying the method described there an investigation is made in the present paper of the stability of some petroleum-samples with different content of natural aromatic compounds. The investigated oils were transformer-oils. The results showed that the intensity of gas-separation in an electric field decreases with an increase in the content of natural aromatic compounds. It was not even possible in the oil with a 17,42% content of aromatic compounds to obtain such a stability as it is attained by an addition of 15% bencene. The assumption is expressed that in the case of a natural aromatic compound the presence of the side chains which are characteristic for

Card 1/2

57-27-7-8/40

The Influence Exerted by Side Chains in Aromatic Compounds Upon the Behavior of Petroleum in an Electric Field

the aromatic compounds exerts an unfavorable influence. The test showed that even an addition of only one methyl-group to benzene markedly deteriorates the stability of a mixture with a condenser-oil in an electric field. It is therefore assumed that this very circumstance brought about the fact that most of the firms abroad changed over from the use of oil as impregnation-mass in the production of condensers to one using synthetic aromatic chlorinated liquids, chiefly pentachlorodiphenyl. In the USSR it is under the name "Sovol" successfully used in the condensers. The strongly increased stability of Sovol in an electric field in comparison with the condenser-oil is shown by the surves. Castor oil also possesses a high stability. There are a figures, 1 table and 6 references, 4 of which are Soviet.

SUBMITTED:

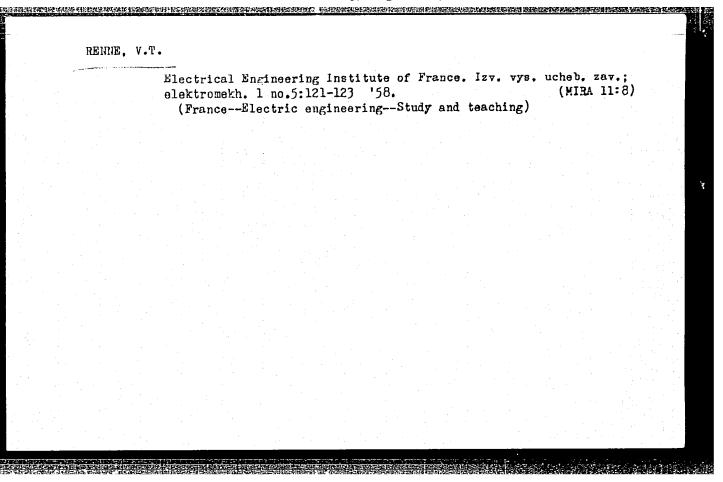
Movember 6, 1956

AVAILABLE:

Library of Congress

Card 2/2

 Petroleum-Stability-Test results 2. Petroleum-Electrical properties-Effects of cyclic compounds 3. Cyclic compounds



HENNE, V.T., doktor tekhn. nauk, prof.

Electric capacitors for temperatures up to 500° C. Elektrichestvo (MIRA 11:5)

no.4:80-81 Ap '58. (Condensers (Electricity))

MATALEN IN TERRITORIS CONTROLLEN STATEMENT RANGE CANADAS AND CONTROLLEN DE LA CONTROL DE LA CONTROL DE LA CONT

80V/139-58-6-26/29

AUTHOR:

Renne, V. T.

TITLE: Studies of

Studies of the Dielectric Losses in Capacitor Paper

(Issledovaniye dielektricheskikh poter: v

kondensatornoy bumage)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Fizika,

1958, Nr 6, pp 161-166 (USSR)

ABSTRACT: This paper reviews the work done by the Chair of Electrical Insulation and Cable Technology of the

Leningrad Polytechnical Institute imeni M. I. Kalinin in recent years. The author and his team developed a simple method of measurement of the dielectric losses (Ref 1) in cooperation with the capacitor paper industry. This method was passed over to the Ukrainian Institute for Paper where apparatus suitable for measurements of tan 6 of paper was developed for use in paper factories. As a result of measurements of tan 8 of a number of

Soviet capacitor papers carried cut at the Leningrad Polytechnical Institute and the Ukrainian Institute for Paper, a new State Standard (GOST) on capacitor paper

Card 1/5

was established. Fig 1 shows that satisfactory agreement could be obtained when the losses of capacitor paper were

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Studies of the Dielectric Losses in Uspecitor Paper

measured at different temperatures, using the same apparatus, at Leningrad (curve 1) and Kiyev (curve 2). It was found (Ref 4) that the usual Soviet sulphate cellulose pulp has the amount of pentosan (11-12%) which American workers believe to be the optimum amount (Ref 2). It follows that any treatment which would charge the natural pantosan content in Soviet cellulose pulp would increase the dielectric losses. Capacitor paper contains also a small amount of lignin. The dielectric losses of lighin are higher than those of cellulose but since only 3-4% of lignin is present in cellulose, it does not affect It was also the total losses of the paper very much. found that the inorganic components of paper (its ash content) may affect the loss-angle tangent of paper very considerably. This is shown in Fig 2 where tan & is given as a function of ash content from 0.4 to 1.0% (Sicinski's data, Ref 3). The new State Standard on capacitor paper requires that the ash content should not exceed 0.45% and should be of the order of 0.3-0.35%. It was found that not only is the total ash contant important but also its

Card 2/5

SOV/139--58--6--26/29

Studies of the Dielectric Losses in Capacitor Paper

and seemed and the control of the co

composition. Small amounts of univalent cations (e.g. Li, Na, K) or of Al raise the tan & of paper, while divalent cations leave the paper losses practically unaffected. This is shown in Fig 3, which summarizes the author's earlier work on this particular point (Ref 5). Dependence of the lossangle of paper, containing various cations, at temperatures below OC is shown in Fig 4. The The lowest losses at sub-zero temperatures occur in a sample from which inorganic matter was removed (ash content 0.03-0.04%). All cations ircreased the value of tan & of paper at its maximum near -50°C. The effect of cations on tan & of paper at temperatures above 0°C is due to an increase in the electrical conductivity of paper produced by, mobile univalent cations. At temperatures below 0°C $an \delta_{
m max}$ rises on introduction of cations because the latter push apart the cellulose chains and this makes the hydroxyl groups more mobile; vibrations of hydroxyl groups in an alternating field are mainly responsible for the losses below 0°C. Since in practical applications the region of positive temperatures is of greater interest, it follows that the univalent metal

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SOV/139-58-6-26/29

Studies of the Dielectric Losses in Capacitor Paper

and aluminium content of capacitor paper should be reduced to the minimum. In the USSR capacitor paper is produced by four factories: Malinskaya, Uspenskaya, "Kommunar" and "Skenays 'kursant". It was found that the losses of the capacitor paper produced by the Uspenskaya and Frasnyy cursant" factories were smaller than those of the papers produced by the "Kommuner" and Malinskaya Works. This was found to be due to purification of water in the latter two factories. The "Kommunar" factory used a sodium cation filter which introduced sodium cations and the Malinskaya factory used caustic soda and alums to coagulate iron salts, introducing in this way cations of sodium and aluminium into the capacitor paper produced. When the water purification methods at these two factories were modified in such a way as to avoid the introduction of the sodium and aluminium cations, the dielectric losses of the capacitor papers produced at the "Kommunar" and Malinskaya Works decreased markedly (Figs 5 and 6). The dielectric losses of paper depend also on its density, increasing

Card 4/5

SOV/139-58-6-26/29

Studies of the Dielectric Losses in Capacitor Paper

with increase of the latter (Fig 7). This is reflected in the State Standard, which requires tan 5 of KON-1 paper with usual density to be less than 0.0017, while for the paper KON-11 with higher density tan 6 should be below 0.0020. If the density of capacitor paper is lowered, then its dielectric losses are decreased but the process lowers the electric strength of the paper as well (Ref 7). The latter effect can be avoided by a suitable pulping process (Ref 8) and lowering of the amount of conducting particles in the capacitor paper (Ref 9).

There are 7 figures and 9 references, 7 of which are Soviet, 1 English, 1 Polish.

ASSOCIATION: Leningradskiy politekhnicheskiy institut imeni M. I. Kalinina (Leningrad Polytechnical Institute imeni M. I. Kalinin)

SUBMITTED: March 31, 1958

Card 5/5

CIA-RDP86-00513R001444 "APPROVED FOR RELEASE: Tuesday, August 01, 2000

S/112/59/000/012/005/097/ A052/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 12, p. 8, # 23973

AUTHORS:

Mikhaylov, M. M., Renne, V. T.

TITLE:

Principal Directions and Results of Activity of the Department of Electric-Insulation and Catle Technique by the 40th Anniversary of the Great October Revolution

PESTODICAL: Nauchno-tekhn. inform, byul. Leningr. politekhn. in-t, 1958, No. 7, pp. 3-15

TEXT: A review of the development since 1925 of scientific-research problems of the Department is presented; a scheme of the gradual expansion of the subjects of researches and their interconnection is given. The scientific work of the Department develops in three directions: the study of the moistureresistance, heat-resistance and aging (under action of electric field) of electric insulation with the practical application of the results of research conducted to the fields of cable technique, capacitor engineering and insulation of electrical machines. There are 24 references. V. T. F. Translator's note: This is the full translation of the original Russian abstract. Card 1/1

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AUTHORS:

Renne, Y. T., Professor, Doctor of Technical SOV/105-58-9-10/34

Sciences, Kalyazina, N. N., Candidate of Technical Sciences,

Morozova, M. N., Engineer

TITLE:

Dielectric Losses in Condenser Paper (Dielektricheskiye

poteri v kondensatornoy bumage)

PERIODICAL:

Elektrichestvo, 1958, Nr 9, pp 47 - 52 (USSR)

ABSTRACT:

In recent years investigations of the dielectric losses in condenser paper were carried out at the Laboratoriya ispytaniya dielektrikov LPI (Laboratory for Testing Dielectrics at the Leningrad Polytechnical Institute) in collaboration with the scientific research institutions of paper industry (TsNIIB, UKRNIIB) and with the Kafedra khimii tsellyulozy Leningradskogo

tekhnologicheskogo instituta (Chair of Cellulose Chemistry

at the Leningrad Technological Institute). A special

method of measuring loss angles operating with a simplified electrode system was developed (Ref 2). Paper samples are dried in vacuum and thus the development of an ionization in the paper is eliminated. This method was introduced

into the Ukrainskiy nauchno-issledovatel skiy institut bumagi

Card 1/3

Dielectric Losses in Condenser Paper

807/105-58-9-10/34

(Ukrainian Scientific Research Institute of Paper), being also adopted with few alterations by the new GOST, which was recently officially authorized. This method not only permits to establish a preliminary standard for the $\mathsf{tg} \, \delta$ of condenser paper but also to pool information on the functions of the loss angle versus a number of factors and to show ways and means to improve these principal functions. Summary: 1) The loss angle of dried condenser paper is an important criterion of paper quality. 2) A perfection of domestic sulfate cellulose tending to reduce the pentosane content does not enhance the loss-angle quality of condenser paper, but, on the contrary, leads to an increase of the loss angle. 3) Ash composition is one of the decisive factors governing the magnitude of the loss angle. Monovalent metals, sodium in particular, exert a distinctive detrimental influence. 4) $\hat{\mathbf{A}}$ reduction of sodium content in the cellulose by electro-dialysis methods may lead to a reduction of the loss angle. 5) No sodium cationite filters are to be used in water purification plants employed in the production of insulation paper types. There are 11 figures and 10

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. Dielectric Losses in Condenser Paper

SOV/105-58-9-10/34

references, 6 of which are Soviet.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. Kalinina

(Leningrad Polytechnical Institute imeni Kalinin)

SUBMITTED:

December 13, 1957

Card 3/3

7 - 28-3-0 33 me, word, Morozova, N. AUTHORS: , the Type of Cation Adled to Cellulose in the TITLS: the Bielectric Losses in Condenser Paper (Vliyaniye tipa kationa, prisoyedinennogo k tselivuloze v protsesse ionno-obnennov reaktsii, na dinoteri Londenshtornoy bumagi) alcktricheskiye Zhurnal tekhnicheskoy fiziki, 1958, Vol 28 pp. 1999-2003 (ESSR) TUREO HELLE This is an examination of the evidence provided by H. Church ABSTRACT: (Cherch) (Ref 1). This investigation is not limited to a determination of the specific resistance. It also incorporates an examination of the influence of the type of the attached cation upon the loss angle in condenser paper. Samples of standardized condenser sulfate pulp paper of the type KOH ...II, with a thickness of 8 u were investigated for information bearing on this problem. The residual ash content after the treatment amounted to about 0,03 - 0,05 %. The spectral analysis of the residual ach which was carried out in the WII MMTF under the supervision of I. V. Rodnikova showed that it consists mainly of allicon-, aluminun-, and iron compounds. From the evidence examined, the following conclusions may be drawn:1) tallie cations which have become lodged in the cellulose during the ion exchange 1:01 1/3

Effect of the Type of Cation Added to Cellulose in the resert of Tonic Lebenge Reaction Upon the Celluloses in Condenser Reper

reaction may have a considerable effect upon the electrical properthe block and a seem to say, leven it weletively untl hounts of mutable restricted, in the order of 2.00 - 0.10 of the paper veided. 2) In the positive temperature range, bivalent cations have no effect on the loss angle in paper. Bondadagna seemad, nowered, leas to a description of the coesses The smaller the cation radius is the higher will be this effact. Cations of trivalent aluminum, on the contrary, increase the loss angle less then the cations of monovelent metals. 3) In the runge of negative temperatures metallic options considerably increase the maximum of the loss angle of the dipole radical. The greater the radius of the cation and the higher its valence the more pronounced the influence of the cations will.co. The evidence presented makes it possible to explain the deterioration of the electric properties of congeness paper when instead of specially purified water river water is used in the valer production. The information sutwined in dicated that, as a sodium cation filter was used in the water purification the water was contaminated by sodium ections.

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Effect of the Type of Cation Added to Cellulose in the Propoles of Tonic to Heaction Upon the Dielectric Losses in Condenser Paper

Hence also the paper produced with this water was contaminated. The removal of these filters lead to a considerable increase of the specific resistance and to a reduction of the loss angle of the paper. There are 3 figures, 2 tables, and 5 references, 5 of which are Soviet.

ASSOCIATION:

Leningradskiy politekhnicheskiy institut im. H. T. Kelinina (Leningrad Polytechnical Institute imeni M. I. Kalinin)

SUBMITTED:

December 23, 1957

Card 3/3

RENNE, Vladimir Tikhonovich; ZAKGEYM, L.N., retsenzent; KAZARNOVSKIY, D.M., red.; ZABRODINA, A.A., tekhn.red.

TO THE RESIDENCE PROPERTY OF THE PROPERTY OF T

[Electric capacitors] Elektricheskie kondensatory. Izd.2., perer. Moskva, Gos.energ.izd-vo, 1959. 602 p. (MIRA 13:1) (Electric capacitors)

RENNE, V.T.

Investigation of dielectric losses in capacitor paper. Izv.vys.ucheb.
zav.; fiz. no.6:161-166 '59. (MIRA 12:4)

1. Leningradskiy politekhnicheskiy institut im. M.I. Kalinina. (Electric capacitors-Testing) (Paper)

66168

9,2110

SOV/143-59-8-9/22

AUTHOR:

Renne, V.T., Doctor of Technical Sciences, Professor, and Karabanov, V.I., Engineer, Kozyreva, M.S., Engineer

TITLE:

The Problem of Investigating the Aging Process of Paper Capacitors Impregnated With Castor Oil

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Energetika, 1959, Nr 8, pp 46-51 (USSR)

ABSTRACT:

The authors present the results of an investigation of the aging process of castor-oil-filled capacitors. The application of castor oil for impregnating paper capacitors is delayed by the wide-spread opinion that its chemical stability is inadequate. Therefore, the authors investigated paper capacitors made of four layers of KON-II-10 which were impregnated by medicinal castor oil. These capacitors were tested at temperatures of 85°C and at a potential drop of 37.5 kv/mm during 8000 hours. The capacitors of this test series were hermetically sealed. Another capacitor series

Card 1/3

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SOV/143-59-8-9/22

The Problem of Investigating the Aging Process of Paper Capacitors Impregnated With Castor Oil

was not sealed and was tested at 85°C, 50 kv/mm for 1500 hours. Based on these investigations, the authors arrived at the conclusion that the electrical properties of sealed paper capacitors impregnated by castor oil remain sufficiently stable during their operation. Partial dehydration and polymerization processes occur during the aging of the castor oil in capacitors under the influence of increased temperatures and electric fields. Apparently, the polymerization is preceded by the isomerization in the acid component of the oil, where the C=C bonds change partially to an interconnected state. The cis-groups change into trans-groups. In case castor oil is used in unsealed capacitors, a considerable effect caused oxidation by atmospheric oxygen will be observed. The paper was presented at the Kafedra elektroizolyatsionnoy i kabel'noy techniki (Department of Electrical Insulation and Cable Engineering). There are 4 graphs,

Card 2/3

66168

SOV/143-59-8-9/22

The Problem of Investigating the Aging Process of Paper Capacitors Impregnated With Castor Oil

2 tables and 6 references, 4 of which are Soviet and 2 English.

ASSOCIATION: Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina (Leningrad Polytechnic Institute imeni

M.I. Kalinin)

SUBMITTED: May 7, 1959

Card 3/3

8(3)

SOV/105-59-8-17/28

Renne, V. T., Professor, Doctor of Technical Sciences AUTHOR:

TITLE:

Metalized Paper Capacitors for Power Systems

PERIODICAL:

Elektrichestvo, 1959, Nr 8, pp 73-77 (USSR)

ABSTRACT:

This is a survey on the development of metalized paper capacitors for power systems abroad, which is based upon the following publications: Hennig H., Neue Bauformen von MP Kondensatoren, ETZ, 1950, Bd 71, Nr 8-9, p. 196. Elsner, Metallpapier-Kondensatoren, Bull. ASE, 1952, Bd 43, Nr 18, p. 721. Strab H., Maylandt H., Present stage of the technique of metalized paper capacitors for power systems, CIGRE, Report 109, 1958. Hennig H., Schutzeinrichtung für Leistungs-Kondensatoren, ETZ-B, 1958, Bd 10, Nr 12, p. 467. Maylandt, Schweitzer, Traub, Selbstheilender Kondensator, Patent of the German Federal Republic Nr 965974, 4.07.1957. Condensateur Electrique, Firm patent, gr. 12, class 6, Nr 1 151835, Bosch, - French 6.02.1958. Katalog Radiosoučástky, MPSt ČSR, Tesla Lanskroun, 1957 .- In conclusion, it is pointed out that the problem of the obstructed heat transfer from the central sections of metalized paper capacitors was discussed in the Soviet article (Ref 8).

Card 1/2

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Metalized Paper Capacitors for Power Systems

SOV/105-59-8-17/28

Some experience has already been gathered in the USSR in the field of alternating-current metalized paper radio capacitors of the series MBGCh and in the manufacture of this type of automobile capacitors. There are 12 figures, 1 table, and 9 references, 2 of which are Soviet.

ASSOCIATION: Leningradskiy politekhnicheskiy institut (Leningrad Polytechnical

Institute)

SUBMITTED:

April 13, 1959

Card 2/2

5.4600

57127 SOV/143-59-11-8/19

AUTHORS:

Dolgov, B.N., Professor, Doctor of Technical Sciences; Kharitonov, N.P., Candidate of Technical Sciences; Khudobin, Yu.I., Engineer; Renne, V.T., Prof., Doctor of

Technical Sciences; and Soya, G.P., Engineer

TITLE:

Research on the Electric Properties of Some Silico-

Organic Liquids

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Energetika,

1959, Nr 11, pp 59-66 (USSR)

ABSTRACT:

This is a report on the experiments carried out by the authors to ascertain the electric properties of some silicone's fluids which are potential impregnating or sealing dielectrics. Silicone fluids are rarely used in the USSR, although liquid dielectrics are required for many types of electric equipment. The fluids, examined by the authors, are considerably different in their chemical composition from polymethyl- or polyethyl-siloxenes,7 especially by the presence of a

Card 1/4

SOV/143-59-11-8/19

Research on the Electric Properties of Some Silico-Organic Liquids

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central benzole ring in the molecule. The tested liquids are designated as "Nr 2", "Nr 243" and "Nr 529". They were synthetically produced by the Institute of the Chemistry of Silicates at the AS USSR and tested at the Leningrad Polytechnic Institute imeni M.I. Kalinin. Their physical properties are listed in Table 1. Table 2 shows electric properties of the subject liquids plus "Kaloriya-2" liquid, at room temperature. The evaporability of the examined liquids, plus "Kaloriya-2" and vaseline oil, at 150°C is shown in Table 3. Table 4 shows electric characteristics of different liquids used for the impregnation of experimental capacitors. (Tested were: "Nr 529", "Kaloriya-2", "MN-3" oil, and vaseline oil.) The characteristics of the experimental capacitors impregnated with the same liquids are shown in Table 5. Table 6 shows the changes of the characteristics of

experimental capacitors during the process of aging (up to 200 hours). The devices used in the tests

Card 2/4

57127

sov/143-59-11-8/19

Research on the Electric Properties of Some Silico-Organic Liquids

were: "MDP" bridge with an "M501" vibrational galvanometer and an "F50-1" amplifier - for measuring the specific inductive capacitance and loss angle at 50-cycle frequency and 1 kv voltage; at 400 to 5,000-cycle frequency, an "MLYe-1" bridge with a "ZG-4" sound generator and an "ELUR-3" indicator were employed; at frequencies up to 0.7 megacycles, the "KV-1" Q-meter was applied. The authors conclude that all three new silico-organic liquid dielectrics deserve to be thoroughly examined. In particular, "Nr 529" liquid must be paid attention to. Its main characteristics are: specific inductive capacitance at 20°C: 3.05; the tangent of the loss angle at 20°C: 0.0002; specific resistance at 150°C: 1.10¹² ohm.cm; evaporation loss after 64 hours at 150°C: 1.21%. There are 6 tables, 9 graphs, and 3 references, 2 of which are

Card 3/4

67127

SOV/143-59-11-8/19

Research on the Electric Properties of Some Silico-Organic Liquids

English, 1 Soviet.

ASSOCIATION: Institut khimii silikatov AN SSSR (Institute of the

Chemistry of Silicates at the AS USSR) (Dolgov,

Kharitonov, Khudobin); Leningradskiy politekhniches-kiy institut imeni M.I. Kalinina (Leningrad Polytech-nic Institute imeni M.I. Kalinin) (Renne, Soya)

July 21, 1959 SUBMITTED:

Card 4/4

PONOMARENKO, Ye.D., assistent; MOROZOVA, M.N., inzhener; RENNE, V.T., prof., red.

[Concise laboratory menual on electric engineering materials]

Kratkoe rukovodstvo po laboratorii elektromaterialovedeniia.

Fod red. V.T.Renne. Leningrad, 1960. 34 p.

(MIRA 13:11)

1. Leningrad. Politekhnicheskiy institut.

(Dielectrics) (Electric resistors)

MIKHAYLOV, Mikhail Mikhaylovich, prof., doktor tekhn.nauk. Prinimali uchastiye: ALEKSANDROVA, L.I., kand.tekhn.nauk; TOLVINSKAYA, A.V., kand.tekhn.nauk; IVASHCHENKO, S.A., kand.tekhn.nauk; MELENT'YEVA, N.N., inzh.; RODIONOVA, N.A., inzh.; FOGEL'GEZANG, Ye.V., inzh. RENNE, V.T., prof., doktor tekhn.nauk; ZHITNIKOVA, O.S., tekhn.red.

[Moisture absorption by organic dielectrics] Vlagopronitsaemost organicheskikh dielektrikov. Pod red. V.T.Renne. Moskva, Gos. energ.izd-vo, 1960. 162 p. (MIRA 13:10) (Dielectrics)

8(2)

S/143/60/000/02/007/018 D043/D002

AUTHORS:

Renne, V.T., Doctor of Technical Sciences, Professor,

Morozov, L.A., Proskurnin, V.P., Bayev, I.F.

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TITLE:

A New Insulating Liquid Made of Waste of the Phenol and Acetone Production for Capacitor Impregnation

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Energetika,

1960, Nr 2, pp 51-60 (USSR)

ABSTRACT:

The new insulating liquid for impregnating power current capacitors is a mixture of 1, 1.3-trimethyl-5-phonylindan chlorides and ethyl benzene. It has all the advantages of pentachlordiphenyl, but is considerable cheaper. Isopropyl-benzene- \(\mathcal{\text{C}}\)-methylestyrene with a catalyst (\(\mathcal{H}_3\)\)-\(\mathcal{E}_3\)\)-\(\mathcal{E}_3\)\) is used as raw-

material for producing trimethy:phenylinian polychlorides. The suitability of the new dielectric for impregnating capacitors was astablished in

Card 1/3

S/143/60/000/02/007/018 D043/D002

A New Insulating Liquid Made of Waste of the Phenol and Acetone Froduction for Capacitor Impregnation

preliminary experiments, but additional studies are required. With a certain ratio of the mixture components, the solidification point will be at -35 to -40°C. Good ionization characteristics of capacitor models impregnated with the new dielectric were obtained, thus the capacitors may be subjected to considerable overvoltages during their operation. The production process of the new dielectric is uncomplicated, thus the cost for mass-produced power current capacitors will be reduced compared to those filled with pentawill be reduced compared to those filled with pentachlordiphenyl. Experimental work for obtaining the chlordiphenyl. Experimental work for obtaining the chlorides of trimethylphenyl indan, ethyl benzene chlorides of trimethylphenyl indan, ethyl benzene and their mixture are given. Some differences in the tgo values were caused by the measuring methods used

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\$/143/60/000/02/007/018 D043/D002

A New Insulating Liquid Made of Waste of the Phenol and Acetone Production for Capacitor Impregnation

> at the "Kondensator" plant and lacking perfection of purification methods. The characteristics of capacitor paper specimen impregnated with the new dielectric are also given. Capacitance changes of the KON-I and of the KON-II paper specimens did not exceed 8-9% in the temperature range from -20 to +90°C. There are 3 graphs, 1 block diagram, 5 tables and 5 references, 2 of which are Soviet, 2 English and 1

ASSOCIATION:

Leningradskiy politekhnicheskiy institut imeni M.I.

Kalinina (Leningrad Polytechnic Institute imeni SUBMITTED: _

M.I. Kalinin October 9, 1959, by the Kafedra elektro-izolyatsionnoy i kabel ney tekhniki (Department of Electrical Insulation and Cable Engineering)

Card 3/3

AUTHOR:

Renne. V. T., Professor, Doctor of

s/105/60/000/04/015/024

Technical Sciences

B007/B008

TITLE:

Metal-warnish Capacitor, a New Type of Small-sized Capacitor

PERIODICAL:

Elektrichestvo, 1960, Nr 4, pp 77 - 80 (USSR)

TEXT: The use of a varnished foil for the manufacture of capacitors was practically suggested already in 1934 (Ref 3). This suggestion produced, however, no useful results under the conditions prevailing at that time. The difficulty of eliminating the weak spots in the varnish layer was the main cause for this failure. Modern capacitor production has at present a means of eliminating this influence. This means is a thin metal film (Ref 4). An insulating varnish is used for metal-varnish capacitors. One electrode of the capacitor consists of an aluminum foil which is provided with a multiple varnish coat on both sides. A metal film so thin that the capacitor repairs itself by burning out the defective spot in the case of breakdown (Ref 7) is steamed onto this varnish dielectric as a counterelectrode. A review of available information on metal-varnish capacitors in German, English, and Italian publications is given (Refs 5-11). There are 5 figures, 1 table, and 11 references, 4 of which are Soviet.

SUBMITTED:

November 26, 1959

Card 1/1

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

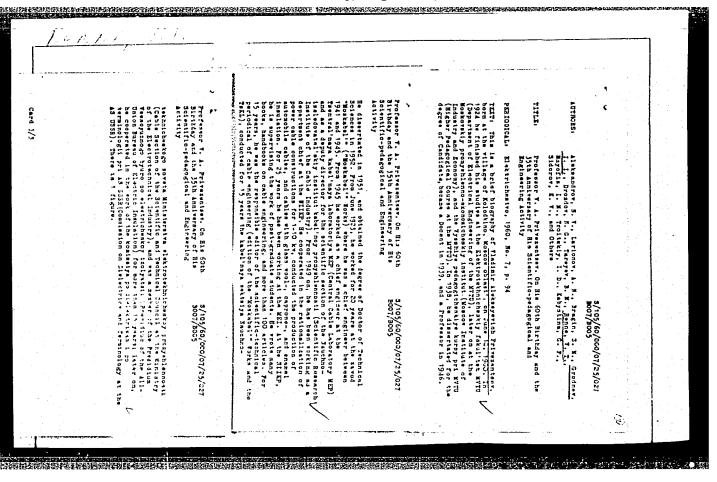
RENNE, V.T., prof.doktor tekhn.nauk; MOROZOVA, M.N., inzh.; KARPOVA, K.I., inzh.

Condenser paper with a small dielectric loss angle. Elektrichestvo no.7:72-77 Jl '60. (MIRA 13:8)

(Electric capacitors)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 (

CIA-RDP86-00513R001444



表现的文字,我们就不是这种的对象的,我们就是是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是这个人的,他们就是这个人的,我们就是一个人,他们就

RENNE, V.T., prof., doktor tekhn.nauk; MOROZOVA, M.N., inzh.

Cation exchange in condenser paper located in a nonaqueous environment. Izv.vys.ucheb.zav.; energ. 3 no.5:65-69 My 160. (MIRA 13:6)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina. Predstavlena kafedroy elektroizolyatsionnoy i kabel'noy tekhniki. (Ion exchange) (Dielectrics)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RENNE, Vladimir Tikhonovich, doktor tekhn.nauk, prof.;
MOROZOV, Mikhail Mikhaylevich, kand.tekhn.nauk

Italian electric condenser industry. Izv. vys. ucheb. zav.; elektromekh. 3 no.9:149-160 '60. (MIRA 15:5)

1. Zaveduyushchiy kafedroy elektroizolyatsionnoy i kabel'noy tekhniki Leningradskogo politekhnicheskogo instituta (for Ronno).

(Italy-Condensers (Electricity))

BOGORODITSKIY, Nikolay Petrovich; PASYNKOV, Vladimir Vasil'yevich; TAREYEV, Boris Mikhaylovich; RENNE, V.T., doktor tekhn.nauk, prof., red.; ZHITNIKOVA, O.S., tekhn.red.

[Electric engineering materials] Elektrotekhnicheskie materialy. Izd.4., perer. Moskva, Gos.energ.izd-vo, 1961. 528 p. (MIRA 14:6)

1. Zaveduyushchiy kafedroy elektroizolyatsionnoy i kabel'noy tekhniki Leningradskogo politekhnicheskogo instituta im. M.I.Kalinina (for Renne).

(Electric engineering-Materials)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

MALKIN, Kh.R.; POSHERSTNIK, M.Yu.; SALYUTINA, M.A.; RENNE, V.T., doktor tekhn. nauk, retsenzent; LAVINSKIY, V.P., inzh., retsenzent; TU-RYBRIN, M.B., nauchnyy red.; NIKITINA, M.I., red.; KOROVENKO, Yu.N., tekhn. red.

[Handbook on electric lines and power calbles] Spravochnik po silovym kabeliam i provodam. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1961. 387 p.

(Electric cables) (Electric lines)

RENNE, V.T., doktor tekhn.nauk

Tenth anniversary of the Research Institute of Cables and Insulators in Bratislava. Elektrichestvo no.2:93-9; 7 '61. (MIRA 14:3)

(Bratislava—Electric insulators and insulation)

(Bratislava—Electric cables)

RENNE, V.T., prof., doktor tekhn.nauk; VARSHAVSKIY, D.S., inzh.

Effect of vacuum treatment conditions on the magnitude of the loss angle in the drying and saturating of large power condensers with oil-saturated paper dielectric. Izv.vys.ucheb.zav.; energ. 4 no.4: 25-29 Ap 161. (MIRA 14:5)

1. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina. Predstavlena kafedroy elektroizolyatsionnoy i kabel'noy tekhniki. (Électric capacitors) (Electric insulators and insulation)

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5/196/62/000/004/008/023 E194/E155

AUTHORS :

Avrutin, A.D., Davydova, L.I., Lavrova, D.S., and

Renne, V.T.

TITLES

An investigation of certain factors that influence

the development of ionising processes in the

dielectric of paper-oil capacitors

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika,

no.4, 1962, 7, abstract 4 B27. (Izv. N.-i. in-ta

postoyan, toka, no.7, 1961, 231-241)

The intensity of ionisation was assessed by measuring the rate of impulses (discharges). A schematic diagram of the equipment is given. To investigate the relationship between the intensity of ionisation and the field strength the latter was raised in steps of 2.5 kV/mm with a delay of 60 sec at each step. The experimental capacitors were of the following characteristics. Paper - type KOH -II (KON-II), thickness 10 microns and width 60 mm, number of layers 4, 5, 6 and 8; capacitance about 0.1 microfarads; impregnated with capacitor oil. The mean electrical Card 1/2

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An investigation of certain factors... 5/196/62/000/004/008/023 E194/E155

characteristics were: tan 5 ≈ 0.0033; RC ≈ 8000 megohmmicrofarads. The a.c. ionisation inception stress was studied as a function of internal pressure in the container, dielectric thickness, temperature and amount of overlap. The intensity of ionisation was also studied as a function of temperature and time of application of voltage with direct voltage, and in this case the stress was raised in steps of 10 kV/mm with a delay of 90 sec at each step. It was shown that the method of assessing the intensity of ionisation from the discharge rate is particularly useful in studying ionisation effects with direct voltage. A comparison was made between the intensity of ionisation with rising and with falling voltage for capacitors impregnated with oil and pentachlordiphenyl. In the latter case there was much less difference between the curves for rising and falling voltage than has been described in the literature. 10 literature references.

[Abstractor's note: Complete translation.]
Card 2/2

RENNE, Vladimir Tikhonovich, doktor tekhn.nauk, prof. MOROZOVA,
Mariya Nikolayevna, kand.tekhn.nauk, assistent RYSHAVYY,
Aton, inzh.

Dielectric losses in Czechoslovakian condenser dielectric paper. Izv. vys. ucheb. zav.; elektromekh. 4 no.4:132-135'61. (MIRA 14:7)

1. Zaveduyushchiy kafedroy elektroizolyatsionnoy i kabel'noy tekhniki Leningradskogo politekhnicheskogo instituta (for Renne). 2. Leningradskiy politekhnicheskiy institut (for Morzova). 3. Zavod "Elektropetse", Prage, Chekhozlovatskaya SSR (for Ryshavyy).

(Dielectrics) (Electric capacitors)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RENNE, V.T., doktor tekhn.nauk, prof.

Electric cordensers using quartz. Elektrichestvo no.9:93-94
S '61. (Electric capacitors)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RENNE, V.T., doktor tekhn.nauk, prof.; MOROZOVA, M.N., kand.tekhn.nauk

Effect of the density of condenser paper on its properties in a saturated state. Izv.vys.ucheb.zav.; energ. 4 no.9:15-21 S '61. (MIRA 14:10)

l. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinina. Predstavlena kafedroy elektroizolyatsionnoy i kabel'noy tekhniki. (Electric condensers) (Dielectrics)

REMNE, V.T., doktor tekhn. nauk, prof.; TAREYEV, B.M., doktor tekhn.nauk, prof., red.

[Study of the relationship between the properties of condenser paper and the quality of paper condensers; manual for the course in "Technology and electric insulation"] Issledovanie sviazi mezhdu svoistvami kondensatornoi bumagi i kachestvom bumazhnykh kondensatorov; uchebnoe posobie po kursu "Tekhnologiia elektricheskoi izoliatsii." Moskva, 1962. 29 p. (MIRA 17:5)

l. Moscow. Vsesoyuznyy zaochnyy energeticheskiy institut. Kafedra elektroizolyatsionnoy i kabel'noy tekhniki.

在1994年1200年120日,1995年120日,1995年120日,1996年120日,1996年120日,1996年120日,1996年120日,1996年120日

GAYLISH, Ye.A.; DROZDOV, N.G.; YEVSTROP'YEV, K.S.; KAZARNOVSKIY, D.M.; NEYMAN, L.R.; PASYNKOV, V.V.; PRIVEZENTSEV, V.A.; REME, V.T.; TAREYEV, B.M.

N.P. Bogoroditskii; on his sixtieth birthday and the thirty-fifth anniversary of his theoretical and educational work. Elektrichestvo no.7:87-88 Jl '62. (MIRA 15:7)

(Bogoroditskii, Nikolai Petrovich, 1902-)

DOLGOV, B.N., doktor khim.nauk, prof. [deceased]; KHUDOBIN, Yu.I., inzh.; KHARITOHOV, N.P., kand.khim.nauk; REENE, V.T., doktor tekhn.nauk, prof.; BONDAREHKO, P.N., inzh.; SOFF, G.P., inzh.

Effect of the composition and structure of the molecules of certain organosilicon liquids on their electrical properties. Izv. vys. ucheb. zav.; energ. 5 no.6:31-36 Je '62. (MIRA 15:6)

1. Institut khimii silikatov AN SSSR (for Dolgov, Khudobin, Kharitonov).
2. Leningradskiy politekhnicheskiy institut imeni M.I.Kalinia (for Renne, Bondarenko. Soya).

(Silicon organic compounds--Electric properties)

S/143/62/000/012/001/005 D238/D303

AUTHORS:

Renne, V.T., Doctor of Technical Sciences, Bondarenko, P.N., Li Kuo-ho, Engineers and Kalantar, N.G., Candidate of Technical Sciences

TITIE:

Electrical properties of electrical insulating oils obtained from eastern sulfurous petroleum

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Energetika, no. 12, 1962, 19-25

TEXT: The tests were carried out on A -89 (D-89) and D-105 oils obtained by the selective refinement of low-viscosity Tuy-maza petroleum distillates. The properties of D-89 and D-105 oils were respectively: d²⁰ 0.8515; kinematic viscosity at 50°C, 8.67 and 8.10 est; sulfur content 0.95 and 0.42%; stability by the BTM (VTI) method: acid number 0.29 and 0.68 mg KOH/g; sediment 0.04 and 0.03%. Comparisons were made against a high-purity vaseline oil as employed in Class A capacitors. Gassing tests were carried out on impregnated paper insulation. As a function of temperature at 50 c/s, the loss Card 1/3

S/143/62/000/012/001/005 D238/D308

Electrical properties ...

angles were greater for both oils than for the vaseline oil while the permittivity of the D-105 oil was very near to that of the vaseline oil, a fact which is associated with the aromatic constituents, while the difference in the loss angles can be atrributed to the influence of electrolytic additions in the D-105 oil. The resistivity/ temperature tests showed a lower resistivity for the D-89 and D-105 oils. Slightly lower breakdown voltages as compared with the vaseline oil over the temperature range 20° to 120°C are attributed to inferior refinement. Gassing tests were carried out at 2.5 kv, 50 c/s across 10 layers of impregnated paper with an overall thickness of 0.1 mm representing 25 kv/mm. The higher content of aromatics in the D-89 oil affords improved resistance to gassing, approaching that of the vaseline oil. Loss engle measurements at 50 c/s carried out on test capacitors over a temperature range of 20° to 100°C indicated a marked deviation from the vaseline oil only at temperatures exceeding $\sim 90^{\circ}$ C. Loss angle tests on D-89 and the vaseline oil at 1800 v, 50 c/s representing 45 kv/mm, indicated complete stability at tan δ = 0.004, over 33 hours, for the D-89 oil. The vaseline oil, starting at 0.003, displayed a catastrophic trend after 20 hours, manifested Card 2/3

Electrical properties ...

S/143/62/000/012/001/005 D238/D303

by the development of intense ionization processes. The D-89 oil was considered as having advantages over the vaseline oil. The Tuymaza oils are assessed as suitable for power capacitors, given the correct pretreatment. There are 6 figures and 3 tables.

ASSOCIATION:

Leningradskiy politekhnicheskiy institut im. M.I. Kalinina (Leningrad Polytechnic Institute im. M.I. Kalinin) (Renne, Bondarenko and Li Kuo-ho); Institut organicheskoy khimii Bashkirskogo filiala AN SSSR (Institute of Organic Chemistry, Bashkirskiy Division, AS USSR) (Kalantar)

Card 3/3

RENNE Vladimir Tikhonovich, doktor tekhn.nauk, prof.; BERKU, Adrian
[Bercu, A.], inzh.; KARABANOV, Valentin Iosifovich, inzh., kand.tekhn.nauk, nauchnyy sotrudnik; KOZYREVA, Mariya Semenovna, kand.tekhn.nauk, nauchnaya sotrudnitsa

Study of a saturation liquid for power condensers. Izv. vys. ucheb.
zav.; elektromekh. 5 no.12:1424-1428 '62. (MIRA 16:6)

1. Zaveduyushchiy kafedroy elektroizolyatsionnoy i kabel'noy tekhniki
Leningradskogo politekhnicheskogo instituta (for Renne).
2. Bukharestskiy institut elektrotekhnicheskikh issledovaniy (for
Berku). 3. Leningradskiy politekhnicheskiy institut (for Karabanov,
Kozyreva).

(Condensers (Electricity)) (Electrolyte solutions)

HENNE, Vladimir Tikhonovich; ZAKGEYM, L.N., retsenzent; KAZARNOVSKIY,D.M., red.; SOBOLEVA, Ye.M., tekhn. red.

[Thin film capacitors with synthetic organic dielectric] Flenochnye kondensatory s organicheskim sinteticheskim dielektrikom.

Moskva, Gosgortekhizdat, 1963. 201 p. (MIRA 16:6) (Condensers (Electricity))

ZAKGEYM, Lev Nakhmanovich; RENNE, V.T., retsenzent; KAZARNOVSKIY, D.M., red.; ZHITNIKOVA, O.S., tekhn. red.

[Electrolytic condensers] Elektroliticheskie kondensatory. Izd.2., perer. i dop. Moskva, Gösenergoizdat, 1963. 283 p. (MIRA 16:7)

(Condensers (Electricity))

RENNE, V.T., doktor tekhn. nauk, prof.; STEPANOV, S.I., inzh.; LAVROVA, D.S., inzh.

Ionization processes in the dielectric of paper condensers subject to the action of d.c. potential. Elektrichestvo no.5: 67-71 My '63. (MIRA 16:7)

1. Leningradskiy politekhnicheskiy institut i Nauchno-issledovatel'skiy institut postoyennogo toka, Leningrad. (Condensers (Electricity))

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001444

L 17963-63	EWT(1)/BDS/ES(s)-2 AF	FTC/ASD/ESD-3/IJP(C)/SSD	Pt-4
ACCESSION NR:	AP3004226	S/0105/63/000/007/009	V0095
AUTHOR: Renne,	V. T. (Doctor of technical	sciences, Professor)	66
TITLE: Fourth (11-16 February	ruz conference on breakdown	of dielectrics and semico	nductors
i i	ichestvo, no. 7, 1963, 94-95		
TOPIC TAGS: di	electric breakdown, semicond	uctor breakdown	
tekhnicheskogo 320 members who Academy of Scie The following r "The founding f	Conference at the Tomskiy or instituta im. Kirova—TPI (Trepresented 24 institutes onces, 17 industrial research eports were delivered before ather of Soviet investigation. Sokolov, TPI, Tomsk; "Inveby I. S. Stekol'nikov, LVGRE	of higher learning, 16 institutes, and 58 productions in the physics of breament and the physics of breament action of long sparks.	titutes of the ction plants. he Conference: kdown, A. F. and the problem
			The state of the s

L 17963-63

ACCESSION NR: AP3004226

7

strength of paper capacitors," by <u>V. T. Renne</u>, LPI, Leningrad. Further, the following five Sections opened their work: (1) "Electric breakdown of gases and vacuum," under <u>B. M. Gokhberg</u>; (2) "Physical processes in breaking down liquid and solid dielectrics," under <u>S. S. Gutin</u>; (3) "Behavior of semiconductors in strong electric fields and breakdown," under <u>V. A. Presnov</u>; (4) "Behavior and breakdown of insulation in strong electric fields," under V. T. Renne; (5) "Applications of electric charges," under <u>O. M. Todes</u>. Some particulars of the above topics are given in the article. Also, two doctor dissertations were defended by I. Ye. Baly*gin (on the breakdown of liquid dielectrics) and <u>G. A. Vorob'yev</u> (on the theory of electric breakdown of solid-state dielectrics) at TPI at the time of the Conference. Orig. art. has: no figure, formula, or table.

ASSOCIATION: Leningradskiy Politekhnicheskiy Institut, LPI (Leningrad Polytechnic Institute)

SUBMITTED: 00

DATE ACQ: 08Aug63

ENCL: 00

SUB CODE: EE, PH

NO REF SOV: 000

OTHER: 000

Card 2/2

BOGORODITSKIY, N.P.; VAVILOV, V.S.; VALEYEV, Kh.S.; DROZDOV, N.G.;
KORITSKIY, Yu.V.; PRIVEZENTSEV, V.A.; RENNE, V.T.; TAREYEV, B.M.;
YAMANOV, S.A.

B.M. Vul; on his 60th birthday and 35th anniversary of his scientific work. Elektrichestvo no.8:95 Ag '63. (MIRA 16:10)

RENNE, V.T., doktor tekhn.nauk, prof.; PONOMARENKO, Ye.D., inzh.

Effect of polarity on the control of damp insulation. Izv. vys. ucheb.
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l. Leningradskiy politekhnicheskiy institut. Predstavelna kafedroy elektroizolyatsionnoy i kabel'noy tekhniki.

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LEMEL, M.M., kuna. tekhn. nash, dets. MATSOMASHVILI, B.M., kand. Miz. mater. nask, mank, v.t., doktor tekhn. nask, prof., Takeyev, B.M., doktor tekhn. nask, prof., red.

[Electric engancering materials: electric condensers, wires, and capter) Klektrotexhnicheskie naterialy, elektricheskie kondensa ory, provoda i kabeli 1962-1963. Moskva, 1964.

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POSHERSTNIK, Moisey Yudovich; SALYUTINA, Mariya Alekseyevna; RENNE, V.T., doktor tekhm. nauk, retsenzent; MINDIN, G.R., nauchn. red.; SACHUK, N.A., red.

[Thermal calculations of ship cables] Teplovoi raschet sudovykh kabelei. Leningrad, Izd-vo "Sudostroenie," 1964. 238 p. (MIRA 17:5)

ACCESSION NR: AP4045825

5/0105/64/000/009/0076/0080

AUTHOR: Renne, V. T. (Doctor of technical sciences, Professor);

ALCOHOL: MATERIAL SERVICE

Soya, G. P. (Engineer)

TITLE: Investigation of the heat resistance of capacitor paper

SOURCE: Elektrichestvo, no. 9, 1964, 76-80

TOPIC TAGS: paper capacitor, capacitor paper, heat resistance, capacitor

paper heat resistance

ABSTRACT: Three mechanisms of destruction of cellulose by heat — pyrolysis, hydrolysis, and oxidation — are briefly discussed. In its initial stage, the destruction is due to the breaking of long molecular chains, to depolimerization; the mechanical strength of the capacitor paper decreases while its electrical characteristics do not deteriorate. A high-sensitivity instrument for the pneumatic punching of capacitor paper, developed by the Ukrainian Scientific

Card 1/2

ACCESSION NR: AP4045825

Research Institute of Paper and Cellulose Industry, is described. Specimens of Soviet (KON-II), French (Bollore), Japanese, and Finnish (Tervakoski) capacitor paper were heated for up to 36 hrs at temperatures within 150-200C and then tested for strength. Curves illustrating the test results are supplied. Orig. art. has: 6 figures and 2 formulas.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnic Institute)

SUBMITTED: 05Feb64

ENCL: 00

SUB CODE: EE, EC

NO REF SOV: 004

OTHER: 001

Card 2/2

BASHARIN, A.V.; BELYAKOV, V.A.; DONSKOY, A.V.; NEYMAN, L.R.; RAVDONIK, V.S.; RENNE, V.T.; RUZIN, Ya.L.; SABININ, Yu.A.; USOV, S.V.

Vasilii Gavrilovich Drannikov, 1904 -; on his 60th birthday and the 35th anniversary of his theoretical and educational work. Elektrichestvo no.10:87 0 '64. (MIRA 17:12)

HERNE, V.T., doktor tekhn. nauk, prof.; MATEVOSYAN, M.A., inch.

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BELINGRAYS, Golling Vacilityovna; PECHKOV, Izyaslav Borisovich; REMNE, V.T., doktor tekhn. nauk prof., otv. red.

[Heat insulation of winding wires] Zharostolkala izoliatsila obmotochnykh provodov. Moskva, Nauka 1965. 97 p.

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TOROSHCHIN, Pavel Alekseyevich; ZAKCEYM, L.N., retsenzent; RENNE,
V.T., doktor tekhn. nauk, prof., nauchn. red.; RASKINA,
T.D., red.

[Metallized paper capacitors] Metallobumazhnye kondensatory.
Moskva, Energiia, 1965. 212 p. (MIRA 18:5)

EPSHTEYN, Schomon Lazarevich; KAZARNOVSKIY, D.N., doktor tekhn. nauk, prof., reusenzent; RENNE, V.T., doktor tekhn. nauk, prof., nauchn. red.; RASKINA, T.D., red.

[Measurement of the characteristics of condensers; capacitance and tangent of the loss angle] Izmerenie kharakteristik kondensatorov; emkost¹ i tangens ugla poter¹.

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BELINSKAYA, Galina Vasil'yevna; PESHKOV, Izyaslav Borisovich,
KHARITONOV, Nikelay Pavlovich; RENNE, V.T., doktor tekhn.
nauk; prof., otv. red.

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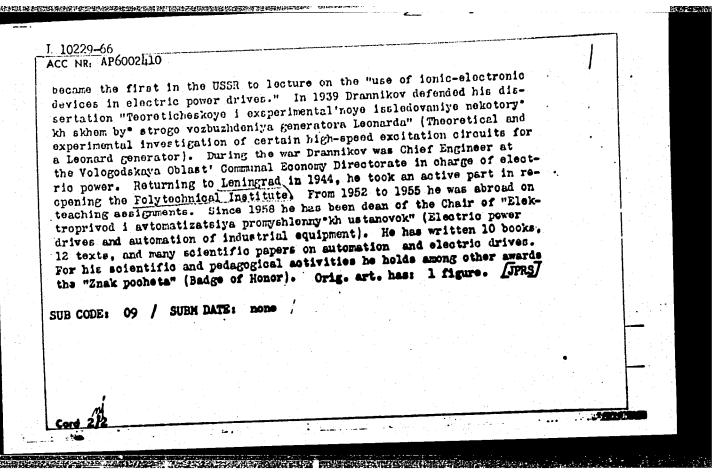
BOCORODITSKIY, Nikolay Petrovice, VOLOHobiNSKIY, Yerly Mikhaylevich;
VOROBIYEV, Aleksaodr Azimivice, TAREYEV, Dorin Mikhaylevich;
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RENNE, V.T., doktor tekhn. nauk, prof.

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ACC NR. AP6002410	SOURCE CODE: UR/0105/64/000/010/0087/0087	
UTHOR: Basharin, A. V.; Belyak	kov, V. A.; Donskoy, A. V.; Neyman, L. P.; Ravdonik, L.; Sabinin, Yu. A.; Usov, S. V.	
RG: none	B	
ITIE: Professor V. G. Dranniko and pedagogical activity)	ov (60th birthday and 35th anniversary of his scientific	
OURCE: Elektrichestvo, no. 10,	, 1964, 87	
OPIC TAGS: electric engineerin	ng personnel, electric engineering	-1_
904 to a worker's family. He to	Drannikov was born in Serpukhov on 30 June began as a textile worker at the "Proletariy" to the Textile Institute in the same year. college of Electromechanics at the Leningrad	
Industrial Institute. In 1930) and began his teaching career at troprived" (Electric power drive	he became a candidate for an advanced degree at the then newly organized Chair of "Elek- res). One of his first publications was the iye poter'v transmissii" (Determination of	
transmission losses) in 1932. I a reader (decent) for the chair	In 1931 he became an assistant and in 1934 r of "Promy"shlennoye ispol'sovaniye elek- l uses of electric power). At that time he_	•



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CIA-RDP86-00513R001444

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[Maintenance of hulls of ships engaged in inland navigation]
Ukhod za korpusami sudov vnutrennego plavaniia. Pod red. IU.V.
Gorianskogo. Leningrad, Izd-vo "Rechnoi transport," Leningrad, otd-nie, 1961.

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[Ruses for the classification and building of seagoing steel ships] Fravila alassification in postroiki morsalah statinyah sudov. Lemingrad, lod-yo Phorskoi transport Ft... 1963. 26;

1. Ruseia (1923- U.S.O.R.) Registr Samus 55%.
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Renielstrat, f. f.

GORYANSKIY, Yu.V., kandidat tekhnicheskikh nauk, redaktor; GORBUNOV, B.A.,
professor, redaktor; RENNENGARDT, F.F., redaktor; VOLCHOK, K.M.,
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the U.S.S.R.; rivers, lakes, canals] Pravila postroiki stal'nykh sudov vnutrennego plavaniia SSSR; reki. ozera, kanaly. Leningrad, Izdvo Ministerstva rechnogo flota SSSR, 1952. 295 p. [Microfilm]
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Budapest, Magyar Traumatologia, Orthopaedia es Helyreallito Sebeszet, Vol IX, No 2, 1966, pages 103-109.

Abstract: [Authors' English summary modified] The mode of function of the well-known and widely used slipped or converted graft is evaluated and a comparison is made with the Phemister method. In addition to some important statistical data, 26 personal cases of surgery are reported and used to analyze the more important aspects of indication and surgical technique in the light of the functional mechanism. All 6 references are Western.

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